Page 1

Tuesday, February 01, 2011 1:21:02 PM

Item ID:

D3391-025

Accept

Setup Start



**Revision ID:** 

Item Name:

Required Date: 2/16/2011

Aft Tube Assembly

2/2/2011 Start Qty: 1.00

**Cust Item ID: Customer:** 

**Tool ID** 

Reference:

**Start Date:** 

Approvals:

Process Plan: MV

Operation

Description

Req'd Qty: 1.00

Date: 1/-02-0/ Tooling:

Date:

Tool # Plan

\*\*\*

Code

Start

Stop

Stop



Date: \_\_\_\_\_

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Accept

Qty

Run

Reject Qty

Reject Number

Insp. Stamp

Work Center ID **Draw Nbr** 

Sequence ID/

**Revision Nbr** 

D3391

Rev H/ DEO

Mori Seiki

Mori Seiki CNC Lathe Large

MORI SEIKI CNC LATHE LARGE

Memo

0.00

Turn as per Folio FA599

Rev: AA & Dwg D3391 Rev: H

0.00

\*\*\*scribe batch # on fwd end at 90 degree\*\*\*

JL 11/02/07

110

QC2- Inspect parts off machine FAI/FAIB

0.00



Quality Control

Memo

SL 11/02/07

111

QC8- Inspect parts - second check

0.00

and 11/02/08

Quality Control

Memo

0.00

W/O:		WORK ORDER CHANGES							
DATE	STEP	STEP PROCEDURE CHANGE		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
ı									
					ļ ļ				

Part No: D3391-025 PAR #: WA. Fault Category: MACHW. NCR: (es) No DQA: Date: 11,03.01

Resolution: Ccceptable Disposition: use as a QA: N/C Closed: Date: 11,03.01

NCR:66	5010	WORK ORDER NON-CONFORMANCE (NCR)								
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section B Action Description	Sign &	Verification Section C	Approval Chief Eng	Approval QC Inspector		
11.02.57	الالا	1.D. OF MACHINED END 15 3.545 instead of 3.500.	Chief Eng	Acceptable. Not high stress area of tabe.	JL 11/02/07	Collan	11,02.07	Shap		
			P51042			Mosic	Q5)042	"fac. 1		
						·				

Cust Item ID:

D 11.2-15

Accept

Setup, Start

Stop

	der ID 66 uary 01, 2011	0 - 0						
Item ID:	D3391-025							
<b>Revision ID:</b>								
Item Name:	Aft Tube Asse	Aft Tube Assembly						
Start Date:	2/2/2011	Start Qty: 1.00						
Required Dat	e: 2/16/2011	Req'd Qty: 1.00						
Reference:								
Approvals:	Process Pla	an:						
	QC:		_ ]					
Sequence ID/		Operation						
Work Center	ID	Description						
120								

QC8- Inspect parts - second check

Memo

140

Quality Control

Required Date Reference:	: 2/16/2011	Req'd Qty: 1.00			Customer:						
Approvals:	Process Pla	an:	Date:	Tooling: SPC (Y/N):		ate:		R	Run Sta Sto		
Sequence ID/ Work Center I 20 HAAS I HAAS CNC vertical		Operation Description  HAAS CNC VERTICAL  Memo  1-Machine a 2-Deburr		Set Up/ Run Hours 0.00 0.00 : <u>AA</u> & Dwg D3391 Rev: <u></u>	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
QC Quality Control		QC2- Inspect parts off m	achine FAI/FAIB	0.00	_ nloa	114					

0.00

0.00

**/**2.

# **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: Approval Approval Qty Chief Eng / 🛪 Pred Mgr DATE STEP **PROCEDURE CHANGE** By Date QC Inspector Part No: \_\_\_\_\_\_ PAR #: \_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ Resolution: Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_ **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B Verification **Description of NC Approval** Approval **STEP** DATE Sign & **Action Description** Initial QC Inspector Section C Chief Eng Section A Date Chief Eng Chief Eng

Tuesday, February 01, 2011 1:21:02 PM



Page 3

Item ID:

D3391-025

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Aft Tube Assembly

**Start Date:** 

**Required Date: 2/16/2011** 

2/2/2011

Start Oty: 1.00

Rea'd Otv: 1.00



Cust Item ID:

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Date: \_\_\_\_\_

Tooling:

SPC (Y/N):

Date:

Tool ID

Date:

Tool # Plan

Code

Start

Run

Accept

Qty



Insp.

Stamp

Stop

Reject

Number

Reject

Qty

Sequence ID/ Work Center ID

150

Skidtubes Skidtubes

Operation Description Set Up/ **Run Hours** 

0.00

Skidtubes

0.00

1-Drill (PILOT HOLE) aft cap holes per Dwg D3391 using DT8803

11-2-22

160

CNC Bend 1

CNC Delta 100 Bender

0.00

BENDING MACHINE - SKIDTUBES

Memo

0.00

Form as per Dwg D3391 Using Bend Prog 3391025

170

Quality Control

OC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

	-							38 38 3	
W/O:									
DATE	STEP	PR	OCEDURE CHANGE	I	7	Ву	Date	Qty Approval	Approval QC Inspector
				i	,				
				. 1					
Part No	:	PAR #:	Fault Category	i	NC	R: Yes	No DQ	A: Date:	

Resolution: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_

Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		STEP Description of NC Section A		Corrective Action Section B	Verification	Approval	Approval				
DATE	STEP					Sign & Section C C		QC Inspector			
				l .			1				
				I							
				i							
		No. of						1			
				·							
		•									
	}										

Tuesday, February 01, 2011 1:21:02 PM



Page 4

Item ID:

D3391-025

**Revision ID:** 

Item Namé:

Aft Tube Assembly

**Start Date:** 

**Required Date: 2/16/2011** 

2/2/2011

Start Qty: 1.00

Req'd Qty: 1.00

Accept



Setup Start



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

A	pprovals:	
$\alpha$	upi uvais.	

Process Plan: Date: Tooling:

QC:\_\_\_\_

Operation

**Description** 

Skidtubes

Date:

SPC (Y/N):

Set Up/

0.00

**Run Hours** 

Date:

Date:

Tool # Plan

Code

Run

Accept

Qty

Start

Stop



Stop

Reject

Qty



Number Stamp

Insp.

Reject

Sequence ID/ Work Center ID

180



Skidtubes Skidtubes

0.00

1-Open Aft cap pilot hole to .208" as per Dwg D3391

2-Drill float bag holes using DT8809 as per Dwg D3391(Holes marked "A" Only

3-Drill wearplate holes as per Dwg D3391 using DT8878(Mid Tube) & DT8217 Wearplate Jig .

\*\*\*\*\*Do Not Open To Finished Size\*\*\*\*

4-Drill Wearshoe holes as per DWG D3391 using DT8939 locating from 2 previously drilled aft wearplate holes.

5-Open wearplate holes to 0.250" and c'bore as per dwg D3391

6-Open up all wearshoe, wearplate to 0.297" and float bag holes to 0.328" as per Dwg D3391.

7-Deburr

11-2-22

Dart Aerospace	L	.td
----------------	---	-----

N/O:			WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE By Date					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
					İ			a a	A THE		
					l				+ 1		
Part No	):		PAR #:	Fault Category:	-	NCR: Yes	No <b>DQ</b>	A:	Date:		
	Da	eclution:		Disposition:		OA: N/C C	locod:		Date		

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of MC		Corrective Action Section B			Approval	Approval		
DATE	STEP Descri	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Chief Eng	QC Inspector		
				1						
								•		
							ļ			
		~						4. (4.14) 4.14		
					1	t -				
				I						

Tuesday, February 01, 2011 1:21:02 PM



Page 5

Item ID: D3391-025

Accept

Setup Start

Stop



**Revision ID:** Item Name:

Aft Tube Assembly

**Start Date:** , 2/2/2011 Start Qty: 1.00

Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

**Required Date: 2/16/2011** Reference:

**Approvals:** 

QC:

Process Plan:

Memo

Memo

Date:

**Tooling:** 

Date:

Run

Start



Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Stop

Reject

Qty



Sequence ID/ **Work Center ID** 

190

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

0.00 5 11/02/22

Tool ID

Tool # Plan Code

Accept Qty

Reject Number

Insp. Stamp

HandFinish Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

210

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

Dart	<b>Aeros</b>	pace	Ltd
------	--------------	------	-----

										***
W/O:			WO	RK ORDER CHANG	GES					-
DATE	STEP	PRO	PROCEDURE CHANGE					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	<u>  .                                     </u>	PAR #:	Fault Cated	gory:	NCR: `	res N	o <b>DQ</b> /	<b>A</b> :	Date:	
		Disposition: C								
NCR:				ER NON-CONFORM		ICR)	T			<b></b>
DATE	STEP	Description of NC	Initial	Corrective Action Sec Action Description	ction B	ign &	Verific		Approval	Approval
	0,	Section A	Chief Eng	Chief Eng		Date	Secti	on C	Chief Eng	QC Inspector
		•	·						,	
										A)
				~						į.

Page 6

Item ID:

Tuesday, February 01, 2011 1:21:02 PM

Accept



Date:

Date:

Tool # Plan

Code

Setup Start



**Revision ID:** 

Item Name:

Aft Tube Assembly

**Start Date:** 

2/2/2011

D3391-025

Start Qty: 1.00

**Required Date: 2/16/2011** Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

QC:\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_ **Tooling:** 

SPC (Y/N):

Run

Accept

Qty

Start

Stop

Sequence ID/

**Work Center ID** 

220

Skidtubes

Skidtubes

230

Quality Control

Operation **Description** 

Skidtubes

Set Up/ **Run Hours** 

0.00

0.00

Memo

QC5- Inspect part completeness to step on W/O

0.00

235

HandFinish

Hand Finishing

Pressure Wash per OSI005 4.3

Memo

0.00

0.00

AND REALODINE AS PER PAR09-043

Stop

Reject

Qty

Reject

Insp.

Number Stamp

Dart	Aero	ospac	e Ltd
------	------	-------	-------

Duit	oopaoc	Liu							· • •
W/O:			WORK ORDER CHANGES						
DATE	STEP	PRC	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							-	•	·
Part No	•	PAR #:	Fault Cat	egory:	NCR: Yes	No DQ	<b>A</b> :	Date:	
	R	esolution:	Dispositi	on:	QA: N/C C	losed:		Date: _	<u> </u>
NCR:		1	WORK ORI	DER NON-CONFORM	MANCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Section B			cation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		ion C	Chief Eng	QC Inspector
			·						
								1	
·									
								,	
				İ	ē				
ı	t	1	1 1		i	1		1	1

Tuesday, February 01, 2011 1:21:02 PM



Page 7

Item ID:

D3391-025

Accept

Accept

Oty

Setup Start

Stop



**Revision ID:** 

Item Name: **Start Date:** 

Aft Tube Assembly

2/2/2011

Start Oty: 1.00

Rea'd Oty: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Start Run

Reject

Oty



**Required Date: 2/16/2011** 

OC:

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Tool # Plan

Code

Stop



Hel 11-2-05

Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

240

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per OSI005 4.3-Alum

0.00

START TIME: OVEN TEMPERATU FINISH TIME:

250

OC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

Memo

0.00

260

HandFinish

Hand Finishing

HandFinishing

Memo

1-Install inserts as per Dwg D3391 2-Install Aft Cap as per Dwg D3391 Sikaflex expiry date: 1101 0.00

0.00

\$ Mylo2/28

Dart Aerospa	ce Ltd
--------------	--------

	. oopaoo									
W/O:			V	ORK ORDER CHA	NGES	-				
DATE	STEP	PRO	ROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								į	·	
Part No	:	PAR #:	Fault Ca	tegory:	NCR	: Yes I	No DQ	A:	Date: _	
Resolution:		esolution:	Disposition:			N/C Clo	sed:		Date: _	
NCR:		V	VORK OR	DER NON-CONFOR	RMANCE	(NCR	)			
DATE	STEP	Description of NC			Section B			ation	Approval	Approval
DATE	SIEP	Section A	Initial Action Des Chief Eng Chief E						Chief Eng	QC Inspector
i										
					4.4					
					ļ					
									,	
				1						

Tuesday, February 01, 2011 1:21:02 PM



Page 8

Item ID:

D3391-025

Accept

Setup Start



**Revision ID:** 

**Start Date:** 

Item Name:

Aft Tube Assembly

2/2/2011

Start Qty: 1.00

**Req'd Qty:** 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan: Date: Tooling:

Date:

Run

Start

Stop



Required Date: 2/16/2011

Date: \_\_\_\_\_

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Stop



Sequence ID/ Work Center ID

270

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

1

35/10 M 8 00.0

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty.

Reject Insp. Number

Stamp

280

Packaging

Packaging

Identify as per dwg & Stock Location:

Memo

Memo

0.00

0.00

290

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

11/02/28 / MF 11-62-28

# **Dart Aerospace Ltd**

N/O:	1		WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
• • • • • • • • • • • • • • • • • • • •														
					l									
Part No	):		PAR #:	Fault Category:		NCR: Yes	No <b>DQ</b>	A:	Date: _					
		esolution:			l	QA: N/C C								

NCR:	]		Verification	Approval				
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
				i				
				i				
								:

### **Picklist Print**

Tuesday, February 01, 2011 1:20:54 PM

Work Order ID: 66010

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 2/2/2011

Start Qty: 1.00

Required Date: 2/16/2011

Date

Issued

Status

Page 1

Required Qty: 1.00

**Comments:** 

Parent Item:

IPP Rev B 06-02-07

06-03-28 IPP Rev:C

ECN773 dwg rev. D EC

Update Manuf. Instructions JLM 🗆 🗆 🗆 EC

No

revF dwg

IPP rev D 07.03.20 IPP rev E 07.11.07

rev G dwg ecn 1053p EC verified by: DD DD verified by: EC

IPP Rev:F 07-11-13 ECN 1056 IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC

Manufactured

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	
D6014-090		Manufactured	No			100	Each	26.0000	1 .	1	_

ALUMINUM EXTRUSION

Location	Lo	c Qty	Loc Code	
LG		26		
56572		26		
	230	Each	56.0000	4 



**SPACER** 

D3670-4-200

<u>Location</u>	Loc Qty	Loc Code
LG	56	
57349	34	
63317	22	

Qty

Issued

Dart	<b>Aeros</b>	pace	Ltd

W/O:			WO	RK ORDER CHANGE	ES				
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				T.					
				1					
				!					
				1					
Part No	:	PAR #:	Fault Categ	ory:	NCR: Yes	No <b>DQ</b>	<b>A</b> :	_ Date: _	
	Res	olution:	Disposition	:	QA: N/C CI	osed:		Date: _	·
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC		Corrective Action Section			cation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Sect	ion C	Chief Eng	QC Inspector
				I					
	:			1					
	-			I					
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
				1				:	
		***		1					
				· 1				1	
				1					
						1			

Tuesday, February 01, 2011 1:20:54 PM

Work Order ID: 66010 D3391-025 Parent Item: Parent Item Name: Aft Tube Assembly Start Date: 2/2/2011 **Required Date: 2/16/2011** Start Qty: 1.00 Required Qty: 1.00 D2646 Manufactured No 270 Each 83.0000 Aft Cap Loc Qty Location Loc Code FP-4 13 13 57332 FP6 16 52663 3 62678 12 63633 Return 2010 54 62678 54 D3537-1 54.0000 Manufactured No 270 Each Wearpad Loc Code Location Loc Qty B65057 FP017 54 54 64424 D3537-7 Manufactured No 270 Each 17.0000 Wearpad Location Loc Qty Loc Code FP16 17

9

56831

65146

# **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: **Approval Approval** DATE STEP PROCEDURE CHANGE Ву Date Qty Chief Eng / QC Inspector Prod Mgr Part No: \_\_\_\_\_\_ PAR #: \_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_ WORK ORDER NON-CONFORMANCE (NCR) NCR:

		Description of NC		Corrective Action Section B	Verification	Approval	Approval		
DATE	STEP	Section A	Section A Initial Action Description Sign of		Sign & Date	Section C	Chief Eng	QC Inspector	
								-	
					1			1	

# **Picklist Print**

Tuesday, February 01, 2011 1:20:55 PM

Page 3

Work Order ID: 66010 D3391-025 Parent Item: Parent Item Name: Aft Tube Assembly Required Date: 2/16/2011 Start Date: 2/2/2011 Required Qty: 1.00 Start Qty: 1.00 D3553-1 Manufactured No 270 29.0000 Each Gasket Loc Code Location Loc Oty FP 29 33868 1 28 56568 D3553-3 270 Each 33.0000 Manufactured No Gasket Location Loc Oty Loc Code FP 33 33 <u>5348</u>0 D3672-1 Manufactured No 270 Each 1,307.000

Phenolic Washer

Location	Loc Oty	Loc Code	
ST077	1307		
42329	10		
<u>52505</u>	297		YZ_
64177	1000		

# **Dart Aerospace Ltd**

Duit Ac	oopaoc	Liu							•
W/O:			W	ORK ORDER CHANG	SES				
DATE STEP		PRC	ROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
					,			· •	
Part No			Fault Cate	NCR: Yes	CR: Yes No DQA: Date:				
Resolution:		Disposition	on:	QA: N/C CI	osed:		Date: _		
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NCR	1)			
DATE	STEP	Description of NC			tion B	Verific	cation	Approval	Approval
DAIE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector
مجر								3	
						ļ:		<b>§</b>	
						ļ			
					,				

Tuesday, February 01, 2011 1:20:55 PM

Work Order ID: 66010 Parent Item: D3391-025 Parent Item Name: Aft Tube Assembly Start Date: 2/2/2011 Required Date: 2/16/2011 Start Qty: 1.00 Required Qty: 1.00 ALS4-1032-130 14 Purchased No 260 Each 729.0000 14 Insert Loc Code Location Loc Qty Lly PKG11 480 M 115581 114723 480 ST281 114 116049 114 ST282 96 110511 10 115911 86 ST381 39 39 114654 ALS4-1032-225 Purchased No 270 Each 4,024.000 12 12 11/02/75 Insert Location Loc Qty Loc Code PK011 4024 4024 110768 2,072.000 AN3C4A No 270 Each Purchased **BOLT** Location Loc Oty Loc Code ST350 2072 115300 25 116075 947 116590 100 y 6 116704 1000

Dart Aerospace	Ltd	
----------------	-----	--

W/O:			WC	RK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				i i					
				ļ.					
				· i					
				I					
Part No	Part No: PAR #:		Fault Category: No			No <b>DQA: Date:</b>			
Resolution:									
NCR:		,	WORK ORDI	ER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
DAIL	SILP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Secti	on C	Chief Eng	QC Inspector
				I					
				1					
				į					
	:			I					
				1					
					ļ				

Tuesday, February 01, 2011 1:20:55 PM

Work Order ID: 66010

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 2/2/2011

Required Date: 2/16/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C5A

Bolt

Purchased

270

Each

946.0000

11/02/25

Location	Lo	e Qty	Loc Code		
ST350		946			
114330		11			
115015		13			
115371		18			
115422		100			
115594		6			
115835		198	4		<u></u>
116419		500			
116549		100			
	270	Each	25.0000	10	10

AN960C10L

NAS1149C0332 Purchased

No

M102125

washer

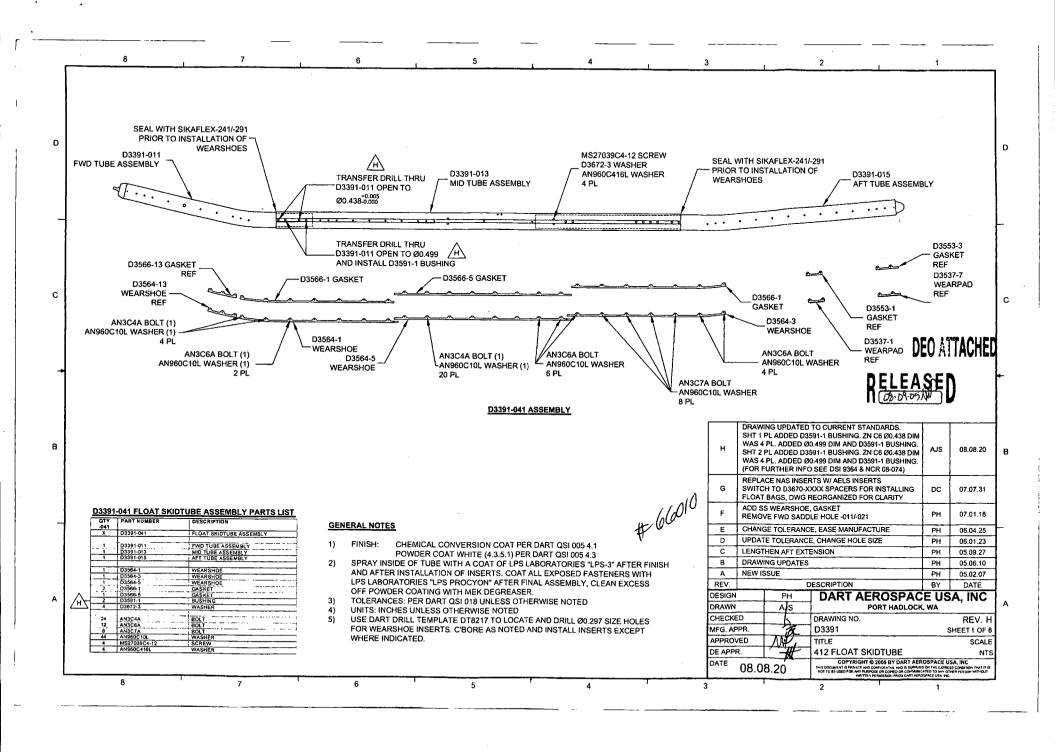
Location	Loc Qty	Loc Code	
ST245	25	11 116304	x \ 7
107534	25		

# **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: Approval **Approval** PROCEDURE CHANGE By DATE STEP Qtv Chief Eng / Date QC Inspector Prod Mar Part No: \_\_\_\_\_\_ PAR #: \_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_ WORK ORDER NON-CONFORMANCE (NCR) NCR: Corrective Action Section B Varification Approval Approval Description of NC

1		Section A 1 """"	•				WARITICATIAN	Annraual	innraval   Annraval		
DATE	STEP		Initial Chief Eng	Action D	escription ef Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
					I						
					1				;		
					I						
					I						
					1						
					I						
					,						

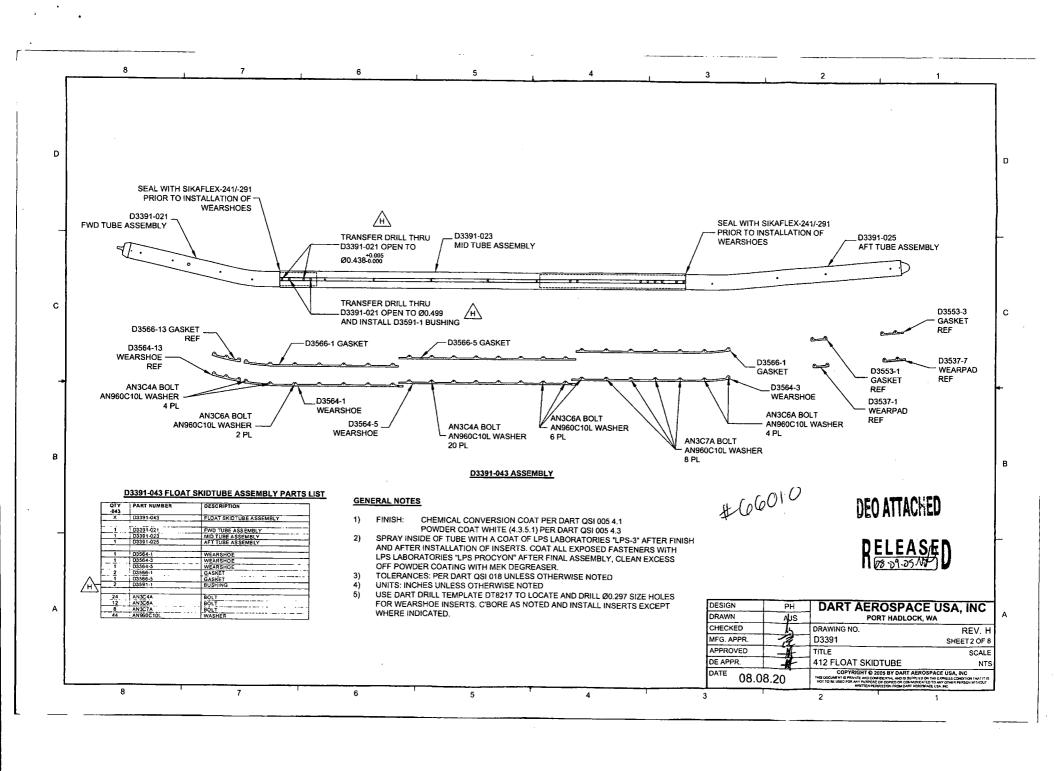
						<del></del>		100
DAR	T AEROS	SPACE LTD		<u> </u>		Work Order	: 660	10
	1-41 Fla	-t Objekt by (440)				Part Number	r D33	391-3
Desc	ription: Fio	at Skidtube (412)				Fait Number		751-0
Inspe	ction Dwg	: D3391 Rev	/: H				Page	1 of 1
		CIDO	T ARTICLE I	NODECTI	ON CHE	CKLIST	,	
		FIRS		<del></del>	<del>-</del> 7			
			X First Arti	icle	Prot	otype		
Di	rawing		Actual			Method of		
Din	nension	Tolerance	Dimension	Accept	Reject	Inspection	Comm	ients
		J	La	the Section	 1			
1	4.000	+/-0.010	1400		-	mtapp		
	3.500	+/-0.010	2 54			11810 11-3		
<b> </b>	88.93	+/-0.030	14 421			mitail		
	4.995	+/-0.030	4500			motope		
	3.200	+/-0.010	3,203			mic, cheos	-	
	38.93	+/-0.030	Q \ 92A			maple	,	
	3.750	+/-0.010	39110			101h 513		
Į.	° x 160"		2-4.10			V(1)( )(3)		
	namfer	+/-0.010	]					
	Meas	ured by:				Date:	11/02/07	
	Aud	ited by:	mf			Date:	11/02/1	حرار (
			' нд	AS Section	3			0
	1.526	+0.000/-0.030	1525	1	<u> </u>	Vein che-02		
		+/-0.010	3000			WIN Che-OX		
	7.500		1.778			An do 00		· ·
	7.750	+/-0.010 . +/-0.010	21 750			m-tape		
ļ	1.750		21,700				···	
	5.250	+/-0.010	35,250	/		1		
	3.300	+/-0.010	- C2 / CC	//		Moluc NGS		
<del></del>	0.200	+/-0.010	200	// -		^	· · · · · · · · · · · · · · · · · · ·	
	3.520	+/-0.010	3,524	1/	<del></del>	~		
	0.687	+0.010/-0.000	.694	//	- <u>-</u>		<del></del>	
	0.062	+/-0.010	1069	/		R. 64		
<u>.</u>	0.484	+0.005/-0.001	1.718+					
	Meas	ured by:				Date:	11/02/14	
	Aud	ited by:	<i>(</i>			Date:	11.2.	12
Rev	Date	Change				Rev	vised by	Approved?-
Α	06.04.24	New Issue	P/O D3391-015	/-025			JLM	
B	06.06.19	Dwg revision up			<u> </u>		JLM JLM	
C D	07.04.20 07.09.06	Ø0.208 dimension					JLM	
E	07.09.06	Dwg Rev. updat					EC/DD	
F	09.04.27	Dimensions upd	ated per Rev H a	and NCR09	-028	KJ/	JLM	
G	09.11.16	Dimension 0.200				KJ	°K) I	_AA





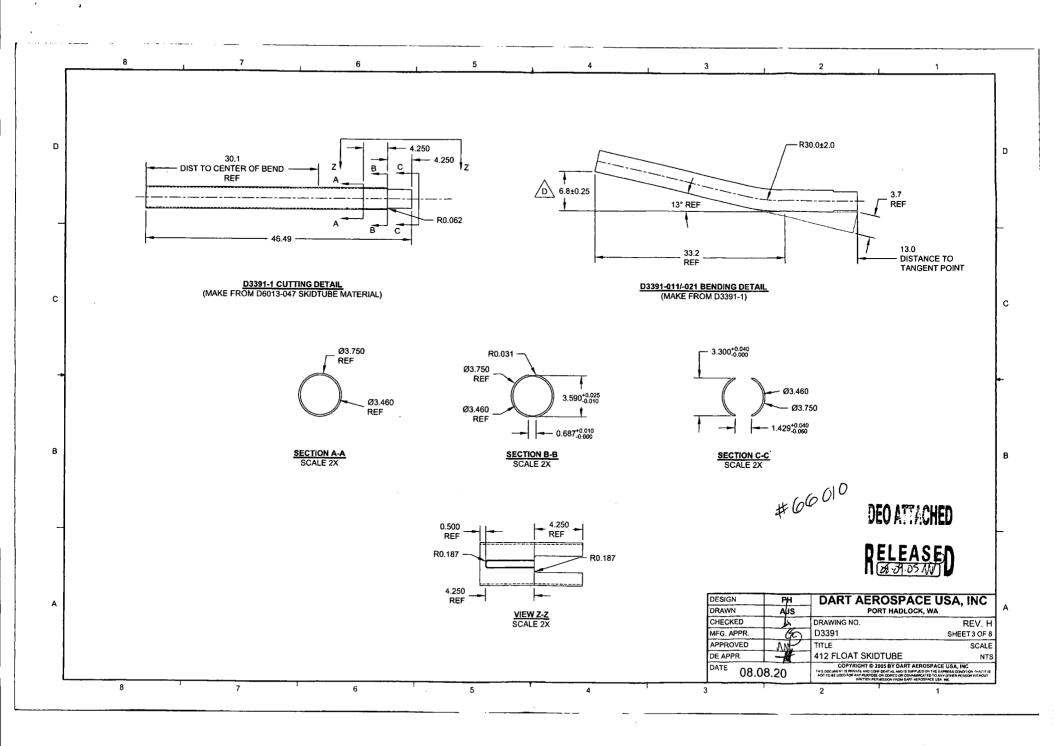
Dart Ae	erospace	Ltd
---------	----------	-----

		- <del></del>								
W/O:			WO	RK ORDER CHANGE	S					
DATE	STEP	PRO	OCEDURE CHAN	CEDURE CHANGE			Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
				1						
				1				п		
				1						
				1						
				1 1 1						
Part No: PAR #:		Fault Cated	orv:	NCR: Yes	NCR: Yes No DQA: Date:					
					C Closed: Date:					
NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NCF	R)				
DATE	STEP	Description of NC		n B Sign 8		cation	Approval	Approval		
DAIL	SILP ,	Section A	Initial Chief Eng	Action Description Chief Eng	Date			Chief Eng	QC Inspector	
				I 1				į		
				l I				į.		
				1				i		
				i I						
				[ 						
				I I	ļ					
				 	ļ	ļ				
	1			i.				1		



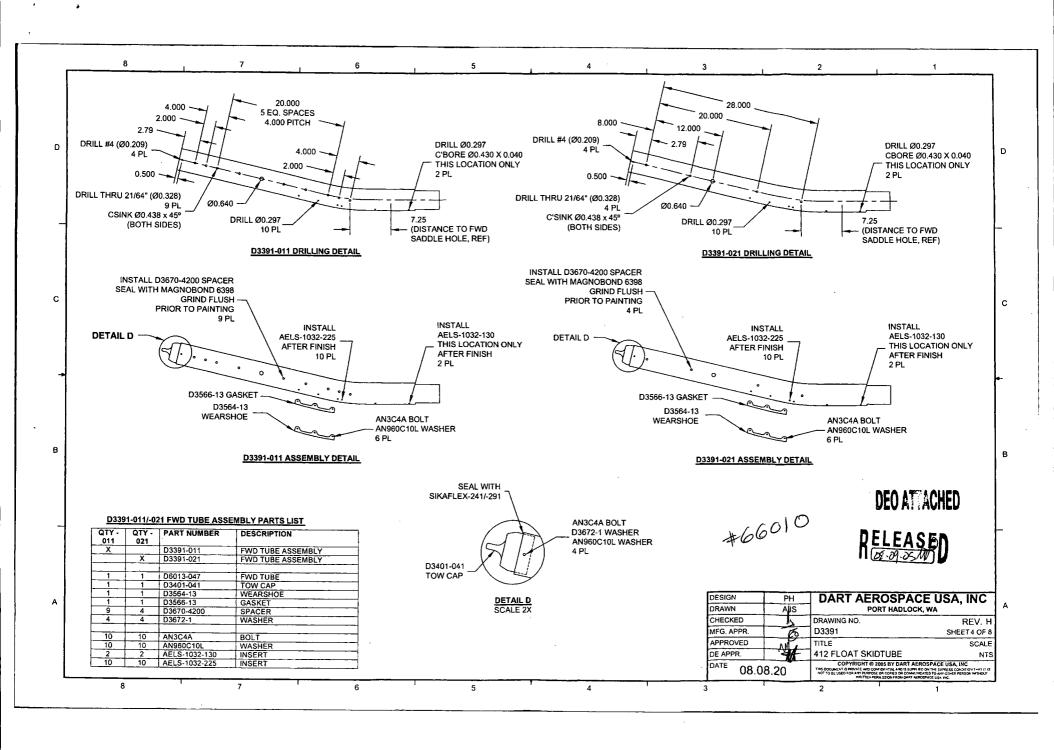
Dart Aerospace	Ltd	
----------------	-----	--

	oopass									•		
W/O:			WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		PAR #:	Fault Cate	gory:	NCR: Yes No DQA: Date:							
				n:	QA	: N/C Clo	losed: Date:					
NCR:			WORK ORD	ER NON-CONFORM	ANCE	(NCR)	)					
DATE	STEP	Description of NC	Corrective Action Section				Verification		Approval	Approval		
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Sect	ion C	Chief Eng	QC Inspector		
					٠							



Dart Aerospace L	.ta
------------------	-----

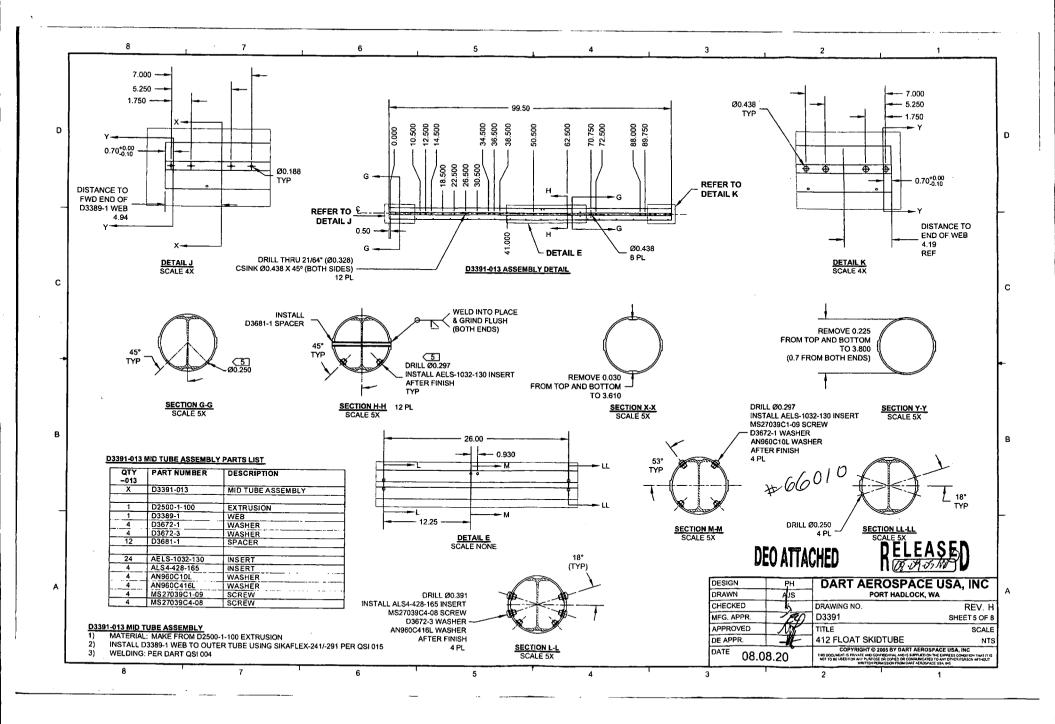
	oopaco .						*		
W/O:			WO	RK ORDER CHANG	SES				
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Categ	jory:	NCR: Ye	s No D	QA:	Date: _	
	Re	solution:	Disposition	ı:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORM	ANCE (N	CR)			
DATE	STEP	Description of NC			ction B	Ver	ification		
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng		n & S	ection C	Chief Eng	QC Inspector
j									
						j			
					ľ				



Dart Aerospace L	Ltd
------------------	-----

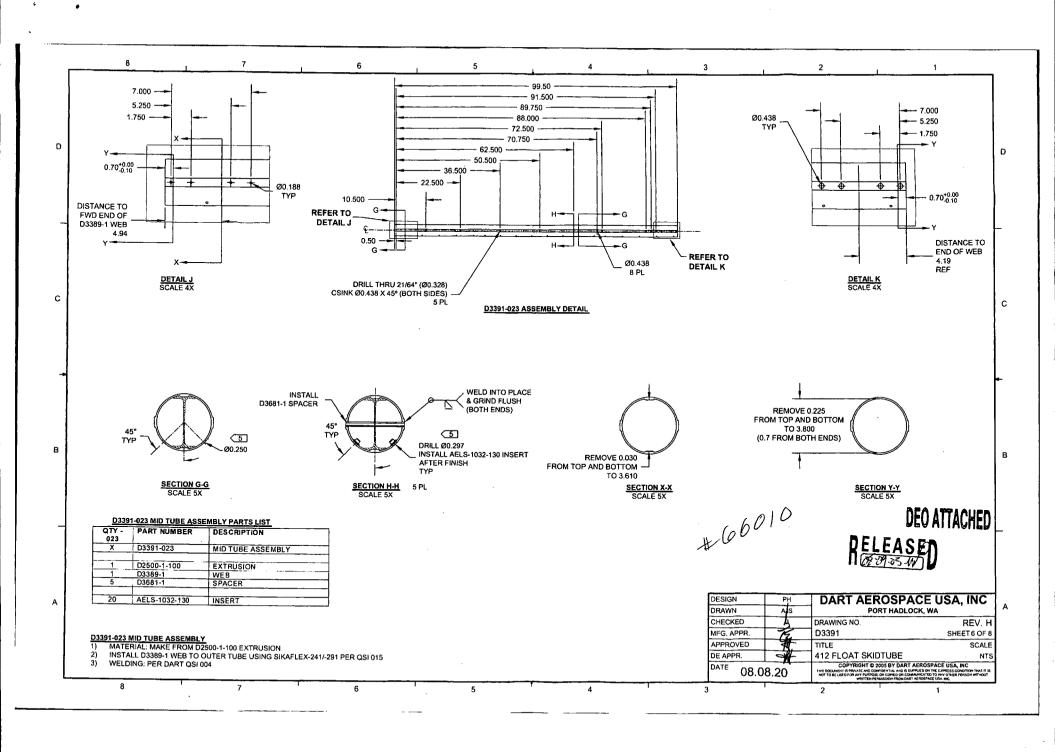
W/O:			WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
				1					
				1					
				1					
				1					
				1					
				I					
Part No	:	PAR #:	Fault Category:	1	NCR: Yes	No <b>DQ</b>	A:	Date: _	
	Resolution	າ:	Disposition:	T.	QA: N/C (	Closed:		Date:	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B				A			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector			
				1							
				I I							
				I I							
				1							
				i I		•					
				1 1							



Dart Aeros	space Ltd
------------	-----------

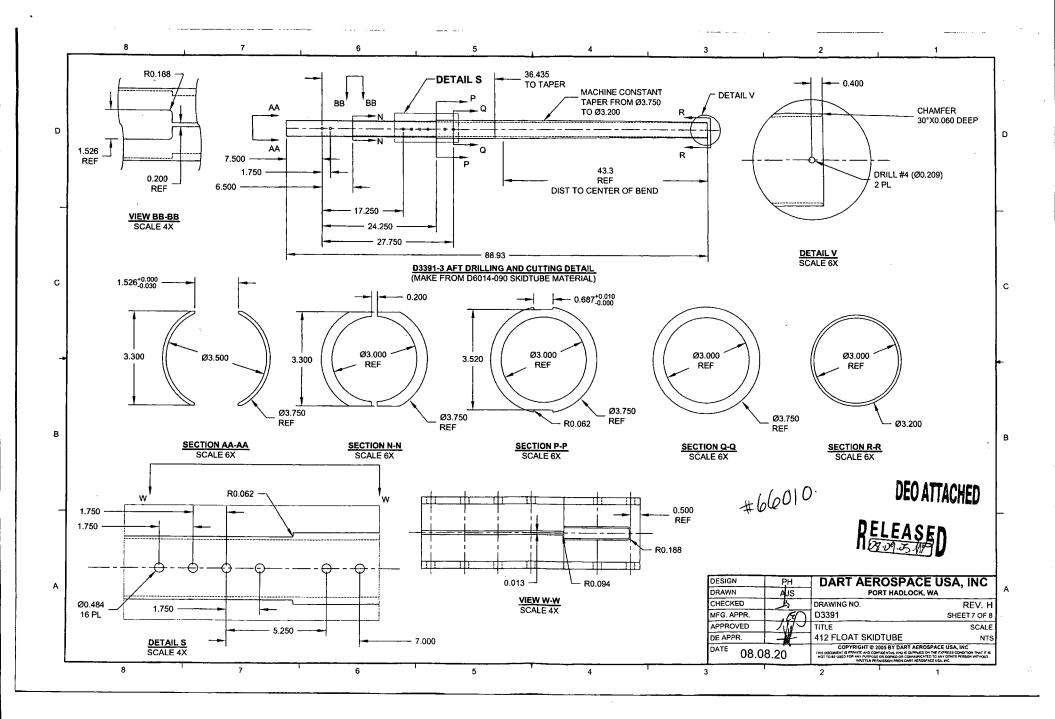
		<del></del>								
W/O:	V/O:		WO	S						
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No	:	PAR #: Fault Category: N				No <b>DQ</b>	A:	Date: _		
	R	esolution:	Disposition	:	QA: N/C C	losed:	osed: Date:			
NCR:			WORK ORDE	R NON-CONFORMAN	NCE (NCF	₹)				
DATE	STEP	Description of NC					cation	Approval	Approval	
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date		tion C	Chief Eng	QC Inspector	
					1			]		
								ì		



# Dart Aerospace Ltd

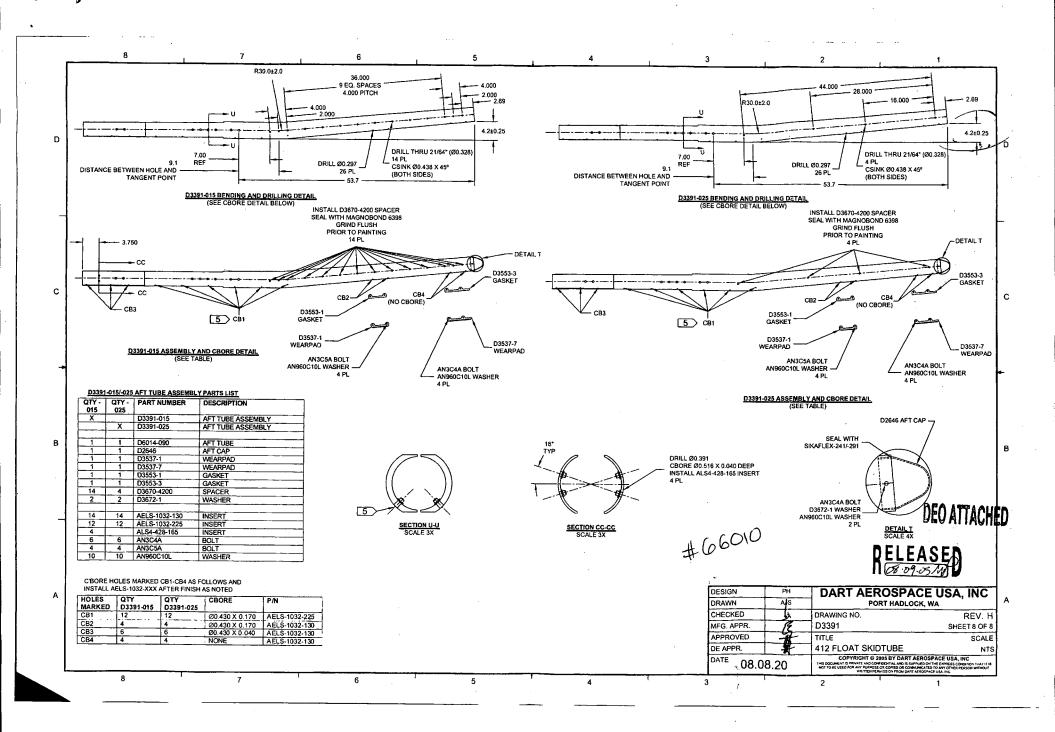
W/O:			WORK ORDER CHANGES							
DATE	STEP	PR	OCEDURE CHANGE	1	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
				1						
2				1 1			į.			
				1						
				1	<u>;</u>   					
		•								
Part No	);	PAR #:	Fault Category:		NCR: Yes	No <b>DQ</b>	A:	_ Date: _		
	Resolution	on:	Disposition:	l .	QA: N/C C	closed:		Date: _		

WORK ORDER NON-CONFORMANCE (NCR)									
on Approval A	Approval QC Inspector								
·									



Dart Aerospa	ace L	.td
--------------	-------	-----

W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
				l I								
				1								
				1								
				1								
				1 1								
D N -	· .	DAD #	F!! O-1		NOD: Voc	No DO	A-	Data	<u> </u>			
				NCR: Yes No DQA: Date: QA: N/C Closed: Date:								
NCR:				R NON-CONFORMA								
DATE	OTED	Description of NC		on B	Verifi	cation	Approval	Approval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	1 3501	ion C	Chief Eng	QC Inspector			
				I I								
				1 1								
				1 1 ·								
·				1								
And South	د عو			l I								
				I I								
				1								
				1	·	į						
				1 • 1								



Dart Aerospace L	Lta
------------------	-----

W/O:				WORK ORDER CHANGES								
DATE	STEP		PR	1 .	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
					1							
					1							
					1							
		•			I							
					1							
Part No	:		PAR #:	Fault Category:	l	NCR: Yes	No <b>DQ</b>	A:	Date: _	<del></del>		
	Re	esolution:		Disposition:		QA: N/C C	losed:		Date: _	<del></del>		

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
DATE	STEP	Description of NC		Corrective Action Section E	Verification	Annroval	Approval				
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspector			
				1							
				1							
				1							
				1							
<del>-</del>											
				l l			,				
				1							
				1							
				1							
				1							
				1							
				l I							
				l l							

DRAWING NO.		TITLE		REV. H D/	ART AEROSPACE USA, II	SHEET NO.	SCALE	
D3391		412 FLOAT	SKIDTUBE	,	<b>ENGINEERING ORDER</b>	D3391-H-1	SHEET 1 OF,1	NTS
DRAWN	U.	)	CHECKED	1	MFG. APPR.	APPROVED NA	DE APPR.	
DATE	09.09	.23	DATE 04.	04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	·.

#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### **CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUDE WITH A GOAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

PELEASED 2010 -02- 0 2

\*66 016

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMINICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERSON EXPLANSION FROM PART AFROSPACE USA. INC.